Tejaswi Worlikar, Ph.D.

Michigan Medicine, Department of Radiology
1500 E. Medical Center Dr Ann Arbor, MI 48109
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Email: wtejaswi@med.umich.edu

Education & Training:
Education:

08/2008 – 06/2012 B.E., Electronics and Telecommunications Engineering,
University of Mumbai, Mumbai, India
09/2012 – 05/2014 M.S, Biomedical Engineering,
University of Michigan, Ann Arbor, MI
09/2013 – 05/2014 M.S.E., Electrical Engineering: Systems,
University of Michigan, Ann Arbor, MI
09/2016 – 04/2022 Ph.D., Biomedical Engineering,
University of Michigan, Ann Arbor, MI
Dissertation: "Pre-Clinical Investigation of Histotripsy for Non-Invasive Ablation of Liver Cancer".

Postdoctoral Training:

05/2022 – 04/2024 Postdoc Research Fellow, Histotripsy Lab
University of Michigan, Ann Arbor

Work Experience:
Research Positions:

05/2024 – present Assistant Research Scientist, Department of Radiology,
University of Michigan, Ann Arbor
01/2017 – 05/2022 Graduate Student Research Assistant, Histotripsy Lab
University of Michigan, Ann Arbor

Academic Appointments:

01/2023 – 04/2023 Adjunct LEO Lecturer, Biomedical Engineering,
University of Michigan, Ann Arbor

Research Interests:

Her primary research focus is the development and investigation of therapeutic ultrasound, specifically histotripsy, for clinical applications such as cancer. Her work addresses questions on the impact of histotripsy on liver cancer progression, metastases, and the tumor immune microenvironment. One of Dr. Worlikar's current research areas is optimizing histotripsy doses and utilizing combination therapies for improving treatment outcomes, including survival, anti-tumor immune response, and abscopal effects. She is also interested in building a histotripsy imaging dataset and applying machine learning and AI image segmentation algorithms to determine treatment efficacy by characterizing the level of post-histotripsy cellular disruption and identifying residual or recurrent viable tumor.

Grants
Ongoing and Past Grants:
"Investigate the impact of histotripsy dosing on liver cancer therapeutic outcomes (local and abscopal tumor response, development of metastases, and survival)"
Cancer Immunotherapy Research, Focused Ultrasound Foundation
Principal Investigator (PI)
11/2023–3/2025, $100,000

Histotripsy for Hepatocellular Carcinoma
N. Reed Dunnick, MD, Endowed Radiology Fund
Co-Principal Investigator (PI)
$3000

Honors and Awards
International:
2019 Student Award Finalist
International Society for Therapeutic Ultrasound Meeting
2023 Student Award Finalist
International Society for Therapeutic Ultrasound Meeting
2024 Young Investigator Award
Society for Advanced Body Imaging

Institutional
2022 Biomedical Engineering Symposium Speaker Award,
University of Michigan

Study Sections, Editorial Boards, and Journal/Abstract Review
Journal/Abstract Reviews
Journal Reviewer:
2023 – 2023 Transactions on Ultrasonics, Ferroelectrics, and Frequency Control
2023 – 2023 International Journal of Hyperthermia
2023 – 2025 American Journal of Gastroenterology
2022 – 2022 Cancer Cell International
2024 – 2024 Journal of the Acoustical Society of America
2024 – 2025 Translational Cancer Research
2024 – 2024 Ultrasound in Medicine and Biology
2024 – 2025 Biomedical Journal

Abstract Reviewer
2023-2025 International Society for Therapeutic Ultrasound 2023 Annual Meeting
2024 Histotripsy Symposium

Teaching
Mentorship
Graduate Student:
2018 – 2019 Sang Won Choi, University of Michigan, Biomedical Engineering, Graduated
2018 – 2020 Ryan Hubbard, University of Michigan, Biomedical Engineering, Current PhD

Candidate

2018 – 2023 Mentored and provided research support and guidance to underrepresented minority students in Histotripsy lab

2020 – 2022 Reliza McGinnis, University of Michigan, Biomedical Engineering, Current PhD Candidate

2022 – 2025 Hanna Kim, University of Michigan, Biomedical Engineering, Current PhD Pre-Candidate

Teaching Activity

Institutional:

01/2018 – 04/2018 Graduate Student Instructor, University of Michigan, Biomedical Engineering

09/2018 – 04/2019 Biomedical Instructional Incubator, University of Michigan, Biomedical Engineering

01/2023 – 04/2023 Biophysical Chemistry and Thermodynamics (BME 221-Lab) University of Michigan, Ann Arbor

01/2023 – 04/2023 Introduction to Biomechanics (BME 231-Lab), University of Michigan, Ann Arbor

09/2024 Guest Lecture, Intro to Biomedical Imaging (BME 442) University of Michigan, Ann Arbor

Committee Service

Institutional:

2020 – 2022 Biomedical Engineering DEI Committee, University of Michigan

2022 Judge, DEI Mini-Conference, University of Michigan

2023 Judge, Biomedical Engineering Symposium, University of Michigan

2023 Judge, Richard and Eleanor Towner Prize for Outstanding Ph.D. Research, University of Michigan

Volunteer Service

Volunteer:

2017 – 2018 Led an innovation incubator team in Sling Health to conceptualize and design a neonatal monitoring wearable for use in resource-limited settings

2018 – 2023 Provided lab tours of Histotripsy laboratory to visiting students and faculty

2020 Volunteered for Crisis Textline, a mental health crisis intervention service

2024 Volunteered for Department of Radiology events

Presentations

Extramural Invited Presentations

Speaker:

1. Invited Talk, “Investigating effects of histotripsy ablation in preclinical liver cancer models,” Histotripsy Symposium 2022, November 2022, Madison, WI.
2. Invited Talk, “Histotripsy dose selection influences immune response and tumor-free survival in an orthotopic liver tumor model,” Acoustical Society of America Annual Meeting, November 2024, virtual.
3. Invited Talk, “Preclinical evaluation of histotripsy dose impact on liver cancer treatment outcomes”. Focused Ultrasound Foundation Speaker Seminar Series, May 2025, virtual

Publications/Scholarship
Peer Reviewed
Journal Articles:

1. Shi, A., Xu, Z., Lundt, J., Tamaddoni, H. A., Worlikar, T., & Hall, T. L. (2018). Integrated Histotripsy and Bubble Coalescence Transducer for Rapid Tissue Ablation. IEEE transactions on ultrasonics, ferroelectrics, and frequency control. 2018 Oct; 65(10):1822-1831, 2018, PMID 30040636
2. Qu, S., Worlikar, T., Felsted, A. E., Ganguly, A., Beems, M. V., Hubbard, R., Pepple, A. L., Kevelin, A. A., Garavaglia, H., Dib, J., Toma, M., Huang, H., Tsung, A., Xu, Z. & Cho, C. S. Non-thermal histotripsy tumor ablation promotes abscopal immune responses that enhance cancer immunotherapy. J Immunother Cancer. 2020 Jan; 8(1):e000200, 2020, PMID 31940590
3. Worlikar, T., Mendiratta-Lala, M., Vlaisavljevich, E., Hubbard, R., Shi, J., Hall, T.L., Cho, C.S., Lee, F.T., Greve, J., Xu, Z. Effects of Histotripsy on Local Tumor Progression in an in vivo Orthotopic Rodent Liver Tumor Model. BME Frontiers. 2020: 2020:9830304, 2020, PMID 34327513
4. Worlikar, T., Zhang, M., Ganguly, A., Hall, T. L., Shi, J., Zhao, L., Lee, F. T., Mendiratta-Lala, M., Cho, C. S. & Xu, Z. Impact of Histotripsy on Development of Intrahepatic Metastases in a Rodent Liver Tumor Model. Cancers (Basel) 2022 Mar 22; 14(7):1612, 2022, PID 35406383
5. Pepple, A. L., Guy, J. L., McGinnis, R., Felsted, A. E., Song, B., Hubbard, R., Worlikar, T., Garavaglia, H., Dib, J., Chao, H., Boyle, N., Olszewski, M., Xu, Z., Ganguly, A., & Cho, C. S. (2023). Spatiotemporal local and abscopal cell death and immune responses to histotripsy focused ultrasound tumor ablation. Frontiers in Immunology, 2023 Jan: 14:1012799, 2023, PMID 36756111
6. Sankar, K., Pearson, A., Worlikar, T., Perricone, M., Holcomb, E., Mendiratta-Lala, M., Xu, Z., Bhowmick, N., & Green, M. (2023). Impact of immune tolerance mechanisms on the efficacy of immunotherapy in primary and secondary liver cancers. Translational Gastroenterology And Hepatology, 2023 Jun 27:8:29, 2023, PMID 37601739
7. Worlikar, T., Hall, T., Zhang, M., Mendiratta-Lala, M., Green, M., Cho, S., Xu, Z. Insights from in vivo preclinical cancer studies with histotripsy. International Journal of Hyperthermia. 2020; 41(1):2297650, 2024, PMID 38214171
8. Hubbard, R., Choi, D., Worlikar, T., Scheven, U., Kim, H., Sukovich, J., Hall, T.L., Xu, Z.: MRI Co-registered Rodent Histotripsy Array for Orthotopic Liver Models. IEEE Trans Ultrason Ferroelectr Freq Control.PP03/2025. PM40111779
9. Worlikar, T., Loudon, N., Khaykin, V.M., Zhang, M., Cho, C.S., Hall, T., Vlaisavljevich, E., Fowlkes, J.B., Parikh, N.D., Xu, Z, Mendiratta-Lala, M. Development of Histotripsy as a Local-Regional Liver Cancer Therapy: Preclinical to Clinical Translation. Radiol Imaging Cancer. 2025 Jul;7(4):e240403. PMC12304532.

Abstracts/Posters:

1. E Vlaisavljevich, T Worlikar, T Gerhardson, J Greve, S Wan, K Ives, T Hall, T Welling, Z Xu. "Robotically assisted sonic therapy (RAST) for non-invasive liver cancer ablation in an in vivo murine model," Abstract, World Conference on Interventional Oncology 2017, June 2017, Boston, MA.
2. E Vlaisavljevich, T Worlikar, T Gerhardson, J Greve, S Wan, K Ives, T Hall, T Welling, Z Xu. "Non-Invasive Liver Cancer Ablation using Histotripsy in an in vivo Murine Model," Abstract, International Society for Therapeutic Ultrasound 2017 Annual International Symposium, May 2017, Nanjing, China.

3. T Worlikar, E Vlaisavljevich, T Gerhardson, J Greve, S Wan, K Ives, T Hall, T Welling, Z Xu. "Non-Invasive Liver Cancer Ablation using Histotripsy in an in vivo Murine Hepatocellular Carcinoma (HCC) Model," Oral Presentation, IEEE International Ultrasonics Symposium 2017, September 2017, Washington, DC.
4. A Shi, T Hall, T Worlikar, Z Xu. "Integrated histotripsy and bubble coalescence transducer for rapid tissue ablation," Abstract, IEEE International Ultrasonics Symposium 2017, September 2017, Washington, DC.
5. T Worlikar, E Vlaisavljevich, T Gerhardson, J Greve, S Wan, S Kuruvilla, K Ives, T Hall, T Welling, F Lee, Z Xu. "Non-Invasive Liver Tumor Ablation using Histotripsy in an in vivo Subcutaneous Murine Hepatocellular Carcinoma (HCC) Model," Poster Presentation, Society of Interventional Radiology Annual Scientific Meeting, March 2018, Los Angeles, CA.
6. T Worlikar, E Vlaisavljevich, T Gerhardson, J Greve, S Wan, S Kuruvilla, K Ives, T Hall, J Lundt, T Welling, F Lee, Z Xu. "Histotripsy for Non-Invasive Liver Tumor Ablation in an in vivo Murine Hepatocellular Carcinoma (HCC) Model," Oral Presentation, World Conference on Interventional Oncology 2018, June 2018, Boston, MA.
7. T Worlikar, E Vlaisavljevich, T Gerhardson, J Greve, S Wan, S Kuruvilla, J Lundt, K Ives, T Hall, T Welling, F Lee, Z Xu. (2018). "Histotripsy for Non-Invasive Ablation of Hepatocellular Carcinoma (HCC) Tumor in a Subcutaneous Xenograft Murine Model.′ Oral Presentation, Annual International Conference of the IEEE Engineering in Medicine and Biology Society, IEEE Engineering in Medicine and Biology Society. Honolulu, HI, July 2018. PMID: 30441719
8. T Worlikar, M Mendiratta-Lala, R Hubbard, E Vlaisavljevich, J Lundt, T Hall1, J Greve, C Cho, F Lee, Z Xu "Histotripsy reduces local tumor progression in an in vivo orthotopic rodent liver tumor model," Oral Presentation, International Society for Therapeutic Ultrasound 2019 Annual International Symposium, June 2019, Barcelona, Spain.
9. R Hubbard, T Worlikar, A Felsted, S Qu, A Ganguly, A Pepple, A Kevelin, M Toma, C Cho, Z Xu. "Histotripsy Induced Immunomodulation", Abstract, International Society for Therapeutic Ultrasound 2019 Annual International Symposium, June 2019, Barcelona, Spain
10. M Mendiratta-Lala, T Worlikar, J Greve, R Hubbard, E Vlaisavljevich, T Hall, C Cho, F Lee, Z Xu. "Non-Invasive Orthotopic Liver Tumor Ablation using Histotripsy in an in vivo Rodent Hepatocellular Carcinoma (HCC) Model," Abstract, World Conference on Interventional Oncology 2019, June 2019, Boston, MA.
11. T Worlikar, M Mendiratta-Lala, R Hubbard, E Vlaisavljevich, J Lundt, T Hall, J Greve, C Cho, F Lee, Z Xu. "Non-Invasive Histotripsy Promotes Local Tumor Regression in an In Vivo, Orthotopic Rodent Liver Tumor Model," Poster Presentation, IEEE International Ultrasonics Symposium 2019, October 2019, Glasgow, UK.
12. A Ganguly, A Pepple, R McGinnis, R Hubbard, A Felsted, T Worlikar, H Garavaglia, J Dib, J Guy, M Olszewski, Z Xu, C Cho. "Histotripsy focused ultrasound ablation induces immunological cell death in treated and distant untreated tumors", Abstract, Society for Immunotherapy of Cancer's (SITC) 35th Anniversary Annual Meeting & Pre-Conference Programs, November 2020, Virtual. Regular and Young Investigator Award Abstract.
13. T Worlikar, M Zhang, A Ganguly, T Hall, L Zhao, J Shi, F Lee, M Mendiratta-Lala, C Cho, Z Xu. "Partial Histotripsy Ablation Promotes Tumor Free Survival in an In Vivo Orthotopic, Metastatic Rodent Liver Tumor Model," Oral Presentation, International Society for Therapeutic Ultrasound 2021 Annual International Symposium, April 2021, Gyeongju, South Korea, and Virtual.
14. T Worlikar, M Zhang, A Ganguly, T Hall, L Zhao, J Shi, F Lee, M Mendiratta-Lala, C Cho, Z Xu "Partial Histotripsy Ablation of Orthotopic Liver Tumor Generates Immune Response and

Improves Survival in an in Vivo Metastatic Rodent Tumor Model," Oral Presentation, IEEE International Ultrasonics Symposium 2021, September 2021, Virtual.

15. T Worlikar. "Pre-Clinical Investigation of Histotripsy for Non-Invasive Ablation of Liver Cancer," Future of Therapeutic Ultrasound Poster Presentation, International Society for Therapeutic Ultrasound 2022 Annual International Symposium, June 2022, Toronto, Canada.
16. T Worlikar, M Zhang, A Ganguly, T Hall, J Shi, L Zhao, F Lee, M Mendiratta-Lala, C Cho, Z Xu. "Histotripsy Inhibits the Development of Intrahepatic Metastases in a Rodent Liver Tumor Model," Oral Presentation, Focused Ultrasound Symposium 2022, October 2022, Bethesda, MD and virtual.
17. R Hubbard, D Choi, T Worlikar, T Hall, Z Xu. "Electronically Steerable MR-Guided Small Animal Histotripsy Array for Orthotopic Tumor Ablation", Abstract, IEEE International Ultrasonics Symposium 2022, October 2022, Venice, Italy, and virtual.
18. R McGinnis, B Song, H Kim, T Worlikar, R Hubbard, C Cho, A Ganguly, Z Xu "Histotripsy treatment parameters affect immune infiltration to treated and distant tumors," Abstract, IEEE International Ultrasonics Symposium 2022, October 2022 Venice, Italy and virtual.
19. M Zhang, T Worlikar, A Ganguly, Z Xu, T Hall, J Shi, L Zhao, F Lee, C Cho, M Mendiratta-Lala. "History of Histotripsy: Bench to Clinical Translation," Educational Exhibit, Society for Advanced Body Imaging Annual Meeting 2022, October 2022, New Orleans, LA.
20. M Zhang, T Worlikar, A Ganguly, Z Xu, T Hall, J Shi, L Zhao, C Cho, M Mendiratta-Lala. "History of Histotripsy: Bench to Clinical Translation," Educational Exhibit, Radiological Society of North America Annual Meeting 2022, November 2022, Chicago, IL.
21. T Worlikar, M Zhang, T Hall, C Cho, Z Xu. "Effects of Histotripsy Dose and Tumor Stage on Treatment Outcomes in a Metastatic Rodent Liver Tumor Model," Oral Presentation, International Society for Therapeutic Ultrasound 2023 Annual Meeting, April 2023, Lyon, France, and virtual.
22. M Zhang, T Worlikar, A Ganguly, Z Xu, T Hall, J Shi, L Zhao, C Cho, M Mendiratta-Lala. "Histotripsy inhibits the development of intrahepatic metastases in a rodent liver tumor model," Abstract, International Congress on Ultrasonics, September 2023, Beijing, China.
23. T Worlikar, H Kim, TL Hall, CS Cho, M Mendiratta-Lala, Z Xu, and M Zhang, 2024. Histotripsy dose selection influences immune response and tumor-free survival in an orthotopic liver tumor model. Oral Presentation, Histotripsy Symposium, June 2024, Minneapolis, MN.
24. T Worlikar, H Kim, TL Hall, CS Cho, M Mendiratta-Lala, Z Xu, and M Zhang, 2024. Histotripsy dose selection influences immune response and tumor-free survival in an orthotopic liver tumor model. Abstract, The Journal of the Acoustical Society of America, 156(4_Supplement), pp.A34-A35.
25. T Worlikar, H Kim, TL Hall, CS Cho, M Mendiratta-Lala, Z Xu, and M Zhang, 2024. Histotripsy dose correlates with tumor cellular damage, tumor stiffness, and treatment outcomes. Abstract, International Society for Therapeutic Ultrasound 2025 Annual Meeting, June 2025, Banff, Canada, and virtual.
26. T Worlikar, H Kim, TL Hall, CS Cho, Z Xu, and M Zhang, 2024. Impact of histotripsy Dose on Tumor Cellular damage, Change in Tumor stiffness, and Treatment Outcomes. Oral Presentation, IEEE International Ultrasonics Symposium 2025, September 2025, Utrecht, Netherlands, and virtual.

Po-Hsiang Tsui

Short biography:
Po-Hsiang Tsui serves at Chang Gung University in Taiwan, as the Professor in the Department of Medical Imaging and Radiological Sciences. The report from Stanford University acknowledges him as being among the top 2% of global scientists in acoustics. Outside the academic realm, Prof. Tsui has co-founded Echo Intelligent, a startup focusing on advancing ultrasound liver healthcare and management. His research interests focus on ultrasound imaging, scattering, and tissue characterization.

Current position:
Professor, Department of Medical Imaging and Radiological Sciences, Chang Gung University, Taiwan

Experience:
2019/08 – 2025/07 Dean of Research and Development, Office of Research and Development, Chang Gung University
2017/08 – 2024/01 Deputy Dean, Institute for Radiological Research, Chang Gung University

Professional fields:
Ultrasound imaging, ultrasound scattering, ultrasound tissue characterization

Awards and Honors:
World's Top 2% Scientists in the Field of Acoustics (2021–2024)
Taiwan Sustainability Action Award (2023)
National Innovation Award (2023, 2020, 2019)
Future Tech Award (2022)
Wu Ta-You Memorial Award (2015)

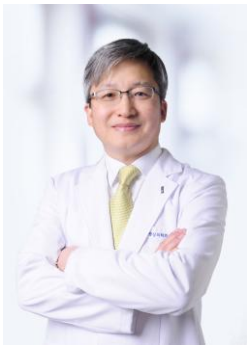
Research Papers:
Ya-Wen Chuang, Chia-Wei Lin, Wen-Chin Weng, and Po-Hsiang Tsui*, "Ultrasound scatteromics: a multimodal QUS-based solution for detecting ambulatory function deterioration in Duchenne muscular dystrophy," Ultrasonics, Vol. 154, article ID 107679, 2025.
Kun Yang, Qiang Li, Jiahong Xu, Meng-Xing Tang, Zhibiao Wang, Po-Hsiang Tsui*, and Xiaowei Zhou, "Frequency-domain robust PCA for real-time monitoring of HIFU treatment," IEEE Transactions on Medical Imaging, Vol. 43, No. 8, pp. 3001-3012, 2024.
Dong Yan, Qiang Li, Chia-Wei Lin, Jeng-Yi Shieh, Wen-Chin Weng, and Po-Hsiang Tsui*, "Hybrid QUS radiomics: a multiparametric quantitative ultrasound approach for assessing ambulatory function in Duchenne muscular dystrophy," IEEE Journal of Biomedical and Health Informatics, Vol. 28, no. 2, pp. 835-845, 2024.
Chien-Ming Chen, Ya-Chun Tang, Shin-Han Huang, Kuang-Tse Pan, Kar-Wai Lui, Yan-Heng Lai, and Po-Hsiang Tsui*, "Ultrasound tissue scatterer distribution imaging: an adjunctive diagnostic tool for shear wave elastography in characterizing focal liver lesions," Ultrasonics Sonochemistry, Vol. 101, article ID 106716, 2023.
Chin-Kuo Chen, Yan-Heng Lai, Li-Chun Hsieh, and Po-Hsiang Tsui*, " Quantitative transmastoid

ultrasound for detecting middle ear effusion in pediatric patients," Computer Methods and Programs in Biomedicine, Vol. 236, article ID 107557, 2023.
Yao-Hung Chuang, Chiao-Shan Hsieh, Ming-Wei Lai, Chien-Chang Chen, Hsun-Chin Chao, Hung-Yu Yeh, Hung-Hsiang Lai, and Po-Hsiang Tsui*, "Detection of pediatric hepatic steatosis through ultrasound backscattering analysis," European Radiology, Vol. 31, No. 5, pp. 3216-3225, 2021.

Giovanna Ferraioli

E-mail: giovanna.ferraioli@unipv.it

Short biography:
Dr. Ferraioli is a researcher at Department of Clinical, Surgical, Diagnostic and Pediatric Sciences, University of Pavia, (Italy). She is member of the Education Committee of the World Federation for Ultrasound in Medicine and Biology (WFUMB) and Chair of the WFUMB Steering Committee for "Multiparametric Ultrasound: Update to WFUMB 2018 elastography guidelines and consensus on fat quantification". She is co-chair of the attenuation working group of the AIUM-RSNA QIBA Pulse Echo Quantitative Ultrasound (PEQUS) Biomarker Committee and member of the ACR LIRADS Quantitative Imaging Work Group. She is head of the ultrasound section of the Scientific Editorial Board of European Radiology, subspecialty Editor of Journal of Ultrasound in Medicine, and member of the Editorial Board of World Journal of Gastroenterology, Ultrasound in Medicine and Biology, Diagnostics, Journal of Ultrasound. She is the co-director of the EFSUMB Ultrasound Learning Center (ULC) at the Medical School of the University of Pavia (Italy). Dr. Ferraioli has delivered lectures worldwide. She has substantially contributed to guidelines on liver shear wave elastography and liver fat quantification with US-based algorithms.



Jae Young Lee, MD, PhD (Korea)

Jae Young Lee MD, PhD, is currently a Professor at the Department of Radiology, Seoul National University (SNU) College of Medicine and Seoul National University Hospital (SNUH). He served as the vice-dean of Research Affairs in SNU College of Medicine for the past four years. He also served as the president of Medical Research Center in SNU. He currently holds the position of Chief Innovation and Quality Officer in SNUH.

Prof. Lee received his medical degree from SNU in 1992. Following this, he completed a one-year internship and a four-year radiology residency program at SNUH from 1992 to 1997. After fulfilling a three-year obligatory military service as a medical officer, he pursued a clinical fellowship in the abdominal section of the Department of Radiology at SNUH in 2001. He has been serving as a professor since 2003 at SNUH and became a tenured professor in SNU in 2017. He obtained his PhD in medical science in 2009 from SNU.

Prof. Lee has published more than 200 scientific articles in international peer-reviewed journals. He has also delivered more than 100 invited lectures in his area of expertise to international audiences.

Prof. Lee now serves as a member of the Korean Society of Ultrasound in Medicine (KSUM), as the next chair of the Board of Directors. He is also a President of the Korean Society of Therapeutic Ultrasound (KSTU) and treasurer of the Asian Federation of Societies for Ultrasound in Medicine and Biology (AFSUMB).

Prof. Lee's research focuses on research of diagnostic and therapeutic ultrasound. Recent publication is "Combination of chemotherapy and focused ultrasound for the treatment of unresectable pancreatic cancer: a proof-of-concept study" (European Radiology, 2023 Apr. 33(4), 2620-2628).

Dr. Bhupendra Ahuja

eMail: drbahuja@gmail.com

Qualification:
MBBS – 1983, S N Medical College, Agra
MD (Radiology) – 1987, S N Medical College, Agra

Fellowships:
1. Fellow Indian College of Radiology & Imaging
2. Fellow Indian College of Medical Ultrasound
3. Fellow Indian College of Maternal & Child Health

Experience:
In Clinical practice of Ultrasonography for last 35 years. Practicing in the field of Ultrasound since 1988, at Agra, INDIA

Recipient of Various Orations:
i. Sir J.C. Bose Oration of Indian Radiological & Imaging Association on 5th January, 2013 at Indore- “Expanding Horizon of Ocular Ultrasound”
ii. Dr. Arcot Gajaraj Oration of Indian Society of Paediatric Radiology- in 2017 at Pune – Ultrasound in Paediatric Ocular Diseases
iii. Dr. Rishi Ram Oration of IRIA, MP State Branch on 5th April, 2003, Bhopal – "Role of 3D/4D Ultrasound in Radiology"
iv. Dr. Mihir Mitar Oration of Indian College of Radiology & Imaging presented during 61st IRIA held at Mumbai – "Ultrasound Markers in Male Infertility"
v. Dr. Pannal Lal Varshney Oration of IRIA UP State Chapter presented during 23rd RICON held at Allahabad – "Ocular Ultrasound"
vi. Dr. P.K.Deka Oration of IRIA Assam branch – 2012 – Expanding Horizon of Pelvic Doppler

Guest Lectures:
Has delivered more than 300 Guest Lectures in National conferences/ CMES & conducted various workshops in India and abroad.

1. Invited Guest Speaker in AFSUMB 2010 held at New Delhi, AFSUMB 2014 Malaysia, AFSUMB 2016 Kyoto Japan, AFSUMB 2022 Hyderabad India
2. Invited Guest Speaker in WFUMB 2017 held at Taipei
3. Invited Guest Speaker, WFUMB Workshop held at Dhaka 2009.
4. Invited Guest Speaker, 8th International Radiological Conference held at Lahore-Pakistan, 2005 in Collaboration with SAARC Society of Radiology
5. Invited Guest Speaker, SAARC Radiology Conference held in Nepal – 2012.
6. Guest Faculty, SAARC Radiology Conference 2010 held at Nagpur, India
7. Invited Guest Faculty, 3rd Ian Donald International Conference on Gynae & Obst. Ultrasound held at Kathmandu, Nepal on 16th & 17th September, 2011

Services Rendered to Various Organizations:
Post Held

1. National President of Indian Radiological & Imaging Association 2017
2. President Indian Radiological & Imaging Association UP State Chapter in 2011
3. Associate Editor, Indian Journal of Radiology & Imaging
4. National President, Indian Federation of Ultrasound in Medicine & Biology 2008-2009
5. National Vice President, Indian Society of Paediatric Radiology
6. National Secretary, IFUMB 1997-2000

Organizational:

1. Organizing Chairman, 67th Annual Conference of IRIA 2014 held at Agra
2. Organizing Secretary, AFSUMB 2010 held at New Delhi
3. Organizing Secretary, 58th Annual Congress of IRIA 2005, Agra
4. Organizing Secretary, Dr. Harnam Singh Midterm CME 2007 & 2011
5. Organizing Secretary, IRIA Mallinckrodt CME 2008
6. Organizing Chairman, National Conference of IFUMB USCON-2008, Agra
7. Organizing Secretary, National Conference of IFUMB USCON-II – 1992, Agra

Notable Achievement and Awards:

1. "Doctor of the Year – 2017" Award of National Indian Medical Association
2. Certificate of Appreciation from World Federation for Ultrasound in Medicine & Biology
3. Received Best Secretary of IRIA State Chapters Award in 2012.
4. Lead Agra's "Smt. Usha Jain Award" for Contribution in Medical Science.
5. Appreciation Award by IFUMB for Valuable Contribution in the Field of Ultrasound in Medicine.

Xiaoyan Xie

SPECIALTY: Diagnosis & Interventional Ultrasonics
Professor and Chairman of Department of Medical Ultrasonic
First Affiliated Hospital, Sun Yat-sen University

ACADEMIC POSITON AND SOCIAL MEMBER:
Director of Medical Ultrasonics at the First Affiliated Hospital of Sun Yat-sen University
Director of the Institute of Ultrasound Diagnosis and Intervention at Sun Yat-sen University
Vice-chairman of Abdominal Ultrasound Division of Chinese Medical Association
Chairman of the Society of Medical Ultrasound, the Guangdong Medical Association
Member of the Society of Japan Ultrasonics in Medicine

RESEACH FIELDS:
1. Ultrasound-guided ablation for HCC.
2. Contrast ultrasound in abdominal and superficial disease

REPRESENTATIVE PUBLICATIONS:
Published more than 150 papers, including Nano Today, Nature Communication, Gastroenterology, Radiology, Live Cancer, European Radiology, UMB etc.

1. Tongyi Huang, Xaoyan Xie. Metabolic Dysfunction-Associated Steatotic liver Disease by Quantitative Ultrasound：International Prospective Study. Radiology. 2024.Accepted
2. Daopeng Yang, Bowen Zhuang, Yan Wang, et al. High-Frequency US for BK Polyomavirus -associated Nephropathy after Kidney Transplant. Radiology. 2022 Aug;304(2):333-341.
3. Wenying Zhou, Yang Yang , Cheng Yu, et al. Ensembled deep learning model outperforms human experts in diagnosing biliary atresia from sonographic gallbladder images. Nat Commun. 2021 Feb 24;12(1):1259.
4. Fei Liu, Dan Liu, Kun Wang, et al. Deep Learning Radiomics Based on Contrast-Enhanced Ultrasound Might Optimize Curative Treatments for Very-Early or Early-Stage Hepatocellular Carcinoma Patients. Liver Cancer. 2020,9(4):397-413
5. Zhang Xiaoer, Huang Guanglian, Ye Jieyi, et al 3-D Contrast-Enhanced Ultrasound Fusion Imaging: A New Technique to Evaluate the Ablative Margin of Radiofrequency Ablation for Hepatocellular Carcinoma. Ultrasound Med Biol 2019, 45(8): 1933-1943.
6. Huanling Guo, Jinsheng Huang, Yang Tan, et al. Nanodrug shows spatiotemporally controlled release of anti- PD- L1 antibody and STING agonist to effectively inhibit tumor progression after radiofrequency ablation. Nano Today. 2022, 43(4): 101425